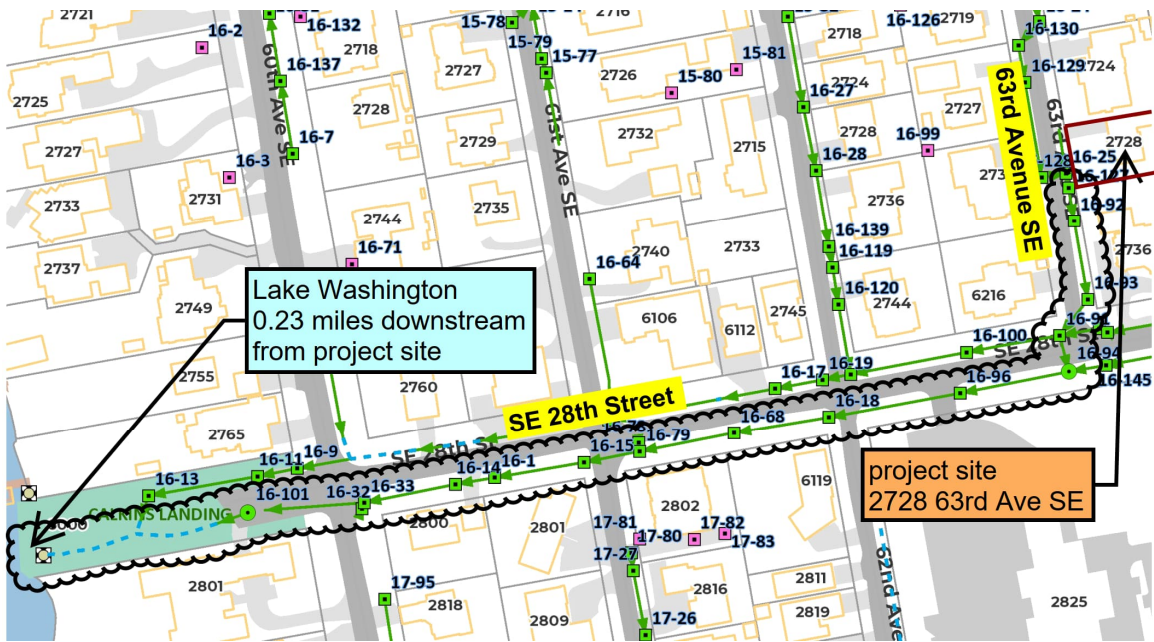
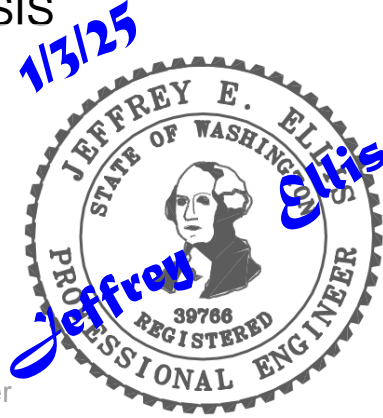


# LEVEL ONE DOWNSTREAM ANALYSIS

Proposed Residence  
2728 63<sup>rd</sup> Avenue SE  
Mercer Island, WA 98040

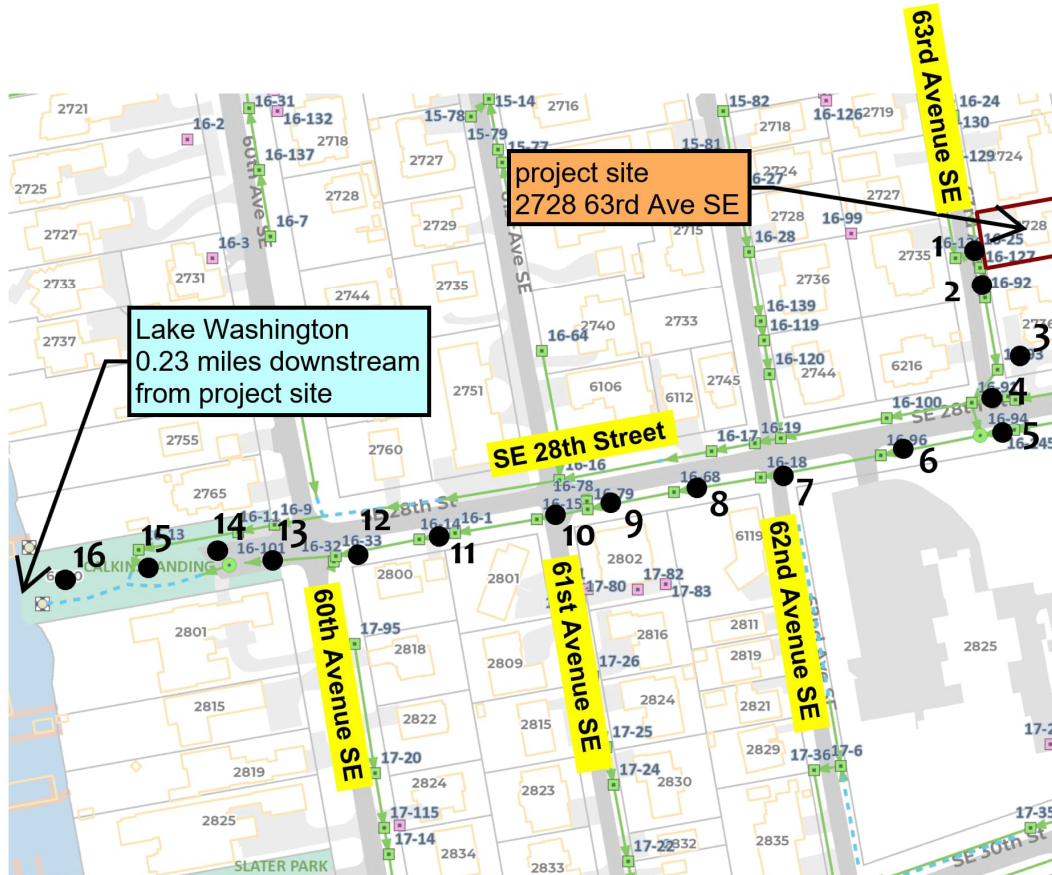
Tax Map #217450-3575  
January 3, 2025

Stephenie Seawall, Civil Engineer  
Duffy Ellis, PE



### Downstream Analysis Map

Numbers refer to the picture numbers in the report



### Executive Summary

This Level 1 downstream analysis report is associated with a building permit application for the subject property at 2728 63<sup>rd</sup> Avenue SE, Mercer Island, WA. The applicant and builder for project is Imani Homes. The architect is Chris Luthi.

The undersigned's civil engineer visited the project site on December 18, 2024 for visual inspection of the downstream path from property to Lake Washington. Conveyance downstream of this lot is mostly tight-lined (piped) except for the final segment nearest to Lake Washington Shoreline discharge. (Calkin's Landing). See map above for reference. One background note to mention, it had rained heavily the night before and no drainage concerns were noted during the visit.

This report maps & identifies the storm path downstream. In this case a majority of conveyance is in underground pipes. In these reports we typically do not provide any flow capacity analysis which would include hydrology and hydraulic calculations. Our mission is determine the flowpath elements and if we notice any obvious signs of overflow or erosion issues. Stor

### **Downstream Route Description**

See the map on the cover sheet for reference. Also see pictures starting on page 4 documenting the site visit. The downstream analysis began at the southwest corner of the project lot. As mentioned already, most of the quarter mile downstream is piped and ends in a landscaped improved creek path discharging into Lake Washington at Calkin's Landing.

### **Downstream Analysis**

#### **Task 1. Study area Definition and Maps**

See maps on pages 1 and 2 of this report, sourced from the Mercer Island IGS mapping portal.

#### **Task 2. Resource Review**

The Mercer Island IGS website was utilized to review for any relevant drainage-related information for subject site.

#### **Task 3. Field Inspection**

##### *Offsite-Upstream drainage Inspection*

We could not find any evidence of concentrated runoff or otherwise that enters subject property from upstream. Area is developed with single family homes.

##### *Onsite Drainage Inspection*

This parcel in its current condition contains one house and driveway. It is not known what the current house does with its stormwater.

##### *Offsite—Downstream Drainage Inspection*

See our maps on pages 1 and 2 of this report. The full downstream, piped flowpath was accessible and followed.

See photos on the following pages for reference.

**Picture 1:**  
project site – 2728 63<sup>rd</sup> Avenue SE  
connection catch basin shown



**Picture 2:**  
ROW on the west side of 2736 63<sup>rd</sup> Ave SE  
Looking south



**Picture 3:**

Northeast corner of 63<sup>rd</sup> Ave SE and SE 28<sup>th</sup> St. (CB 16-93)  
Drainage pipe goes southwest under the street here (following the cut)



**Picture 4:**

NW corner of 63<sup>rd</sup> Ave SE and SE 28<sup>th</sup> St.  
This CB has two outlets, the lower one's pipe crosses under SE 28<sup>th</sup> St. (toward the left in the photo)



**Picture 5:**  
CB at the SW corner of 63<sup>rd</sup> Ave SE and SE 28<sup>th</sup> St  
Heading west



**Picture 6:**  
ROW CB next to driveway of 2825 W. Mercer Way (vacant lot)  
Water continues flowing west



**Picture 7:**  
CB at the southwest corner of 62<sup>nd</sup> Ave SE and SE 28<sup>th</sup> St



**Picture 8:**  
CB in the ROW on the north side of 6119 SE 28<sup>th</sup> St.  
Flowing north



**Picture 9:**  
Southeast corner of 61<sup>st</sup> Ave SE and SE 28<sup>th</sup> St, looking west  
Our water flows through the solid lid CB



**Picture 10:**  
Southwest corner of 61<sup>st</sup> Ave SE and SE 28<sup>th</sup> St, looking west  
Still heading west, looking good.



**Picture 11:**  
ROW on the north side of 2800 60<sup>th</sup> Avenue SE, looking west



**Picture 12:**  
Southeast corner of 60<sup>th</sup> Ave SE and SE 28<sup>th</sup> St, looking west



**Picture 13:**  
Parking lot of Calkin's Landing, looking west toward Lake Washington



**Picture 14:**  
West of parking lot at Calkin's Landing, inlet to creek flowing west toward Lake Washington



**Picture 15:**  
West of parking lot at Calkin's Landing, creek flowing toward Lake Washington



**Picture 16:**  
West of parking lot at Calkin's Landing, creek flowing into Lake Washington

